Examine

RECEIVEL CENTRAL FAX CENTER

NO. 460 P. 3

JUN 27 2006

PTQ/SB/08A (07-05)

Approved for use errough 07/31/2009, QMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1895, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1448/PTO Application Number 10/750,591 Filing Date December 31, 2003 INFORMATION DISCLOSURE Damera-Venkata et al First Named Invantor STATEMENT BY APPLICANT Art Unit 2825 (Use as many sheets as necessary) Examiner Name Attorney Docket Number 200315400-1 Sheet 1

Daminer	CITE No.	Document Number	U. S. PATENT D Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
iniliais"	No.1	Number-Kind Code ^{2 (Florate)}	MM-DD-YYYY	Applicant of Cited Decument	Pages, Columns, Unee, Where Relevant Passages or Resevent Figures Appear
		US-			
		US-			
		US			/
		US-			
^		US-			•
		US-			
		U6-			
		US-	1		
-		US-			
		US-			
	<u> </u>	US-			
		US ·			
		US-			
		US-			
		US-			

		FORE	IGN PATENT DOCL	IMENTS	
Bosminer Initiate	Cite No.	Foreign Patent Document	Publication Date	Name of Palenter of Applicant of Cited Document	Pages, Columna, Lines, Where Relevant Passages
		Country Code ³ Number ⁴ TGnd Code ³ (Fisherm)	WINDDYYYY		Or Relevant Figures Appear
B2		EP1388839	02/11/2004	Hewlett-Packard Company	
40		EP1388840	02/11/2004	Hewlett-Packard Company	
10		EP0790514	08/20/1997	Texas instruments	
1		EP0692728	01/17/1996	Texas instruments	

Examiner
Signature

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw time turough citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (options). *See Kinds Codes of USPTO Patent Documents at www.usmig.gov or MPEP 901.04. *Enter Office that leaved the document, by the two-letter code (WIPO Standard ST.9). *For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the senial number of the patent document. *April of the Standard ST.9. *Applicant is to place a check mark here if English tanguage 05-24-0-

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Thademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (07-05)
Approved for use through 07/31/2008. OMB 0851-0091
U.S. Patent and Tradamark Office; U.S. DEPARTMENT OF COMMERCE Under the Paparwork Reduction Act of 1995, no persona are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1448/PTO **Application Number** 10/760591 INFORMATION DISCLOSURE Filing Date December 31, 2003 STATEMENT BY APPLICANT First Named Inventor Damera-Venkata et al Art Unit 2825 - 2629 (Use as many sheets as necessary) **Examiner Name** 1. DHARY **Attorney Docket Number** 200315400-1 Sheet NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of Cite No. Examiner the fizm (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. T² Initials' PATENT ABSTRACTS OF JAPAN - Olympus Optical Co Ltd - vol 2003 no 3 - May 5, 2003

Examiner Signature	THARA	Date Considered	05-24-07
*EXAMINER: Initial of reference considered, Include copy of the	e considered, whether or not citation is in conformance is form with next communication to applicant.	With MPEP 609. Draw line through	citation if not in conformance and not

considered, Inchose copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English tanguage Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, propering, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form analytic supgestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, P.Q. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

UST OF PATENTS AND UBUCATIONS FOR APPLICANT'S INFORMATION CLOSURE STATEMENT

APPLICATION NO. CONFIRMATION NO. ATTY. DOCKET NO. 8596 200315400-1 10/750,591 APPLICANT Niranjan Damera-Venkata et al. FILING DATE GROUP

(Use several sheets if necessary)

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	··········	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
(A)	1A	2003/0020809	Jan. 30, 2003	Gibbon et al.	
	1B				
	1C				
	1D				
-	1E				
	1F				,
	1G				
	1H				
	11				
	1J				
	1K			,	

Dec. 31, 2003

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M					
1N					
 10					
 18					

		OTHER REFERENCES (including Auth	or, Title, Date, Pertir	nent Pages, etc.)
	1Q			•
	1R			
	15			
EXAMINI	ER (J. DHARIA	DATE CONSIDERED	05-24-07

Rev 10/03 (PTO1449)

Sheet 1 of 4

FORM PTO-1449	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NC
PORM P10-1449	200315400-1	10750591	8596	
UST OF PATENTS AND PUBLICATIONS FOR	APPLICANT		.,,	
APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Niranian Damera-V	enkata et al.		
	FILING DATE	GROUP ,		
(Use several sheets if necessary)	Herewith	2629		

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER)	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	4,662,746	May 5, 1987	Hornbeck	
	1B	4,956,619	Sept. 11, 1990	Hornbeck	
62	1C	5,061,049	Oct. 29, 1991	Hornbeck	
00	1D	5,083,857	Jan. 28, 1992	Hornbeck	
A	JΕ	5,490,009	Feb. 6, 1996	Venkateswar et al.	
100	1F	5,689,283	Nov. 18, 1997	Shirochi	
40)	1G	5,842,762	Dec. 1, 1998	Clarke	
	1Н	5,897,191	Apr. 27, 1999	Clarke	
35	11	5,978,518	Nov. 2, 1999	Oliyide et al.	
(8)	1J	6,025,951	Feb. 15, 2000	Swart et al.	
	1K	6,104,375	Aug. 15, 2000	Lam	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
H	1L	EP 1001306A2	May 17, 2000	Olympus Optical Co.,		X
	1 M					
	1N					
	10					
	1P					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

D	1Q	L.M. Chen and S. Hasagawa, "Visual Resolution Limits for Color Matrix Displays", Displays, Technologies, and Applications, Vol. 13, pp. 221-226, 1992.
	1R	A. Yasuda et al., "FLC Wobbling for High-Resolution Projectors", Journal of the SID 5/3 1997, pp 299-305.
8	18	T. Tokita et al., "P-108: FLC Resolution-Enhancing Device for Projection Displays", SID 02 Digest 2002, pp. 638-641.
EXAMIN	BR 1	DATE CONSIDERED DATE CONSIDERED DESCRIPTION OF THE PROPERTY

F	ORM	PTO-1449			ATTY, DOCKET NO.		APPLICATION NO. CONFIRMA	
			1D1 104710110 FOD		200315400-1		10750591 85	96
		F PATENTS AND PI CANT'S INFORMATI			APPLICANT			
		STATE	MENT		Niranjan Damera-	Venk	(ata et al. GROUP	
	(1	Use several sheets i	f necessary)		H rewith		2629	
REFERE	NCE	DESIGNATION	U.S. PA	TEN	T DOCUMENTS			.
EXAMINE		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns, Lines Wher Relevant Passages or Figures Ap	
9	2A	6,104,375	Aug. 15, 2000	Lar	n			
	2B	6,141,039	Oct. 31, 2000	Poe	etsch		/	
9	2C	6,184,969	Feb. 6, 2001	Fer	gason			
D	2D	6,219,017	Apr. 17, 2001	Shi	mada et al.			
	2E	6,239,783	May 29, 2001	Hill	et al.			
	2F	6,243,055	Jun. 5, 2001	Fer	gason			
2	2G	6,313,888	Nov. 6, 2001	Tat	ata			
B	2H	6,384,816	May 6, 2002	Tat	pata			
(P)	21	6,393,145	May 21, 2002	Bet	risey et al.			
D	2J	2003/0090597	May 15, 2003	Kat	oh et al.			
B	2K	4,373,784	Feb. 1983	No	nomura et al.			
	2L	DOCUMENT NUMBER	PUBLICATION DATE		AME OF PATENTEE OR APPLICANT	1	Pages/Columns/Lines Where levant Passages/Figures Appear	Check if Translation attached
	2M					+		
	2N					 		
	20					+		
	2P					+		
	<u>+ </u>	OTHER REFE	ERENCES (includin	g Au	thor, Title, Date, Po	ertine	ent Pages, etc.)	
D	20	L.M. Chen "Or	ne-Panel Projectors",	, pp. 2	221-226. Date unkn	own.		
	2F	Candice H. Bro SMPTE Advan	own Elliot et al., "Co ced Motion Imaging	lor Su Confe	bpixel Rendering Pro erence; February 27-l	ojecto Marci	ers and Flat Panel Displays"; h 1, 2003; pgs. 1-4.	
9	28	D.H. Kelly, "M Optical Society	otion and Vision - II. of America, Vol. 69	Stat 9, No.	oilized Spatio-Tempor 10, October 1979.	ral Th	reshold Surface," Journal of t	he
EXAMI	NER	P.Du	ARIA		DATE CONSIDER		05-24-07	
Rev 10/03 (P	TO144	§)						

					ATTY. DOCKET NO.	I A	PPLICATION NO.	ICONFIRM	
		PTO-1449			200315400-1		1070591		56
		F PATENTS AND PICANT'S INFORMATI			APPLICANT				
		STATE			Niranjan Damera-\	/enkata	a et al.		
	(1	Use several sheets	if necessary)		Herewith	١	2629		
REFERE	NCE	DESIGNATION	U.S. P	ATEN	r documents				
KAMINE	1	DOCUMENT	PUBLICATION				Pages, Column	s, Lines Whe	ere /
INITIAL	<u> </u>	NUMBER	DATE	-	NAME	Re	levant Passages	or Figures A	ppear
2	ЗА	4,811,003	Mar. 1989	Str	athman et al.		· · · · · · · · · · · · · · · · · · ·		
	3В	5,146,356	Sep. 1992	Cai	Ison				
(D)	3C	5,317,409	May 1994	Ма	cocs				
(2)	3D	5,557,353	Sep. 1996	Sta	hl				
P	3E	5,912,773	Jun. 1999	Bar	nett et al.				
P5	3F	5,920,365 .	Jul. 1999	Eril	ksson				
W)	3G	5,953,148	Sep. 1999	Мо	seley et al.		7		
P	3H	6,067,143	May 2000	Tor	nita				
(F)	31	6,118,584	Sep. 2000	Vai	n Berkel et al.				
\$	3J	6,522,356	Feb. 2003	Wa	tanabe				
D	зк	6,393,145	May 2002	Bet	risey et al.	. /			
<i>-U</i>	T	DOCUMENT	PUBLICATION		PATENT DOCUME	Pa	ges/Columns/Line		
		T	1			Pa	ges/Columns/Line ant Passagee/Pig		Chec
	3L	DOCUMENT	PUBLICATION		AME OF PATENTEE	Pa			Trans
	3L 3M	DOCUMENT NUMBER	PUBLICATION		AME OF PATENTEE	Pa			Trans
	₩	DOCUMENT NUMBER	PUBLICATION		AME OF PATENTEE	Pa			Trans
· .	зм	DOCUMBNT NUMBER	PUBLICATION		AME OF PATENTEE	Pa			Trans
	3M 3N	DOCUMENT NUMBER	PUBLICATION		AME OF PATENTEE	Pa			Trans
	3M 3N 3O	DOCUMENT NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O	DOCUMENT NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 30 3P	DOCUMENT NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 30 3P	DOCUMENT NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	DOCUMENT NUMBER OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Transi
	3M 30 3P	DOCUMENT NUMBER OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	DOCUMENT NUMBER OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
	3M 3N 3O 3P	OTHER REF	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Pai Refev	ant Passagee/Pig	ures Appear	Trans
EXAMI	3M 3N 3O 3P	OTHER REF	PUBLICATION DATE	ng Au	AME OF PATENTEE OR APPLICANT	Par	ant Passagee/Pig	ures Appear	Trans

					ATTY. DOCKET NO.		APPLICATION NO.		
FO	RM P	TO-1449			200315400-1		APPLICATION NO.	859	36
LIST OF PATENTS AND PUBLICATIONS FOR					APPLICANT	1		103	, , , ,
AP	YUCA	NT'S INFORMATI STATE			Niranjan Damera-Venkata t al.				
(Use several sheets if necessary)					FILING DATE Herewith		2629		
	NCE I	DESIGNATION	U.S. P/	ATEN	T DOCUMENTS				
AMINER NITIAL	_	DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns, Lines Wher Relevant Passages or Figures Ap		e pear
	4A 2	2003/0076325	Apr. 2003	Thi	asher		· · · · · · · · · · · · · · · · · · ·		_
	4B		•						
	4C								
	4D			1		7			
	4E								
	4F						······		
	4G								
	4H								
	41								
	4J							•	
	4K								
		DOCUMENT	PUBLICATION		PATENT DOCUMI	1	Pages/Columns/Line	es Where	1
	41	DOCUMENT NUMBER				1		es Where jures Appear	Check Translat attach
	4L 4M		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line	es Where lures Appear	Translat
	\vdash		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line	es Where tures Appear	Transla
	4M		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line	es Where ures Appear	Transla
	4M 4N		PUBLICATION		AME OF PATENTEE	1	Pages/Columns/Line	es Where ures Appear	Translat
	4M 4N 4O	NUMBER	PUBLICATION DATE	. N	AME OF PATENTEE	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P 4Q 4R	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Transla
	4M 4N 4O 4P	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Transla
	4M 4N 4O 4P 4Q 4R	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT	Reli	Pages/Columns/Line evant Passages/Fig	ures Appear	Translat
	4M 4N 4O 4P 4Q 4R 4S	OTHER REFI	PUBLICATION DATE	. N	AME OF PATENTEE OR APPLICANT thor, Title, Date, P	Pertine	Pages/Columns/Line evant Passages/Fig	nures Appear	Translat



Sheet

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
action Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 10/750.591 Filing Date Dec. 31, 2003 First Named Inventor N. Damera-Venkata Art Unit 2029 **Unknown** Examiner Name Unknown 200315400-1 Attorney Docket Number

U. S. PATENT DOCUMENTS Name of Patentee or Pages, Columns, Lines, Where Examiner Cite Document Number **Publication Date** MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code^{2 (# kne} Figures Appear US- 5,386,253 01/1995 Fielding ^{US-} 6,657,603 12/2003 Demetrescu et al. US-USus-US-LIS US-US-US-115 ÜS-US-US-US-US-US JJS US-**FOREIGN PATENT DOCUMENTS** Cite Name of Patentee or Pages, Columns, Lines, Examiner Foreign Patent Document Initials* Date Applicant of Cited Document Where Relevant Passages MM-DD-YYYY Or Relevant Figures Appear Country Code³ "Number ⁴ "Kind Code⁵ (if known)

53 - 7 - 5	I P DAME TO	Considered	D 1- 20-0 T

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.usplo.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. It is the patent document with the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to the quite which is to the clarify the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing it is burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.